

APPENDIX A: FINAL RULES

Parts 1, 2, 73, 74, 78 and 101 of Chapter I of Title 47 of the Code of Federal Regulations are amended as follows

PART 1 – PRACTICE AND PROCEDURE

1. The authority citation for Part 1 continues to read as follows:

AUTHORITY: 47 U.S.C. 151, 154, 207, 303, and 309(j).

2. Section 1.901 is revised to read as follows:

§ 1.901 Basis and purpose.

These rules are issued pursuant to the Communications Act of 1934, as amended, 47 U.S.C. 151 *et seq.* The purpose of these rules is to establish the requirements and conditions under which entities may be licensed in the Wireless Radio Services as described in this part and in parts 13, 20, 22, 24, 26, 37, 74, 80, 87, 90, 95, 97 and 101 of this chapter.

3. Section 1.902 is revised to read as follows:

§ 1.902 Scope.

In case of any conflict between the rules set forth in this subpart and the rules set forth in Parts 13, 20, 22, 24, 26, 27, 74, 80, 87, 90, 95, 97, and 101 of Title 47, Chapter I of the Code of Federal Regulations, the rules in Part 1 shall govern.

4. Section 1.929 is amended by revising the introductory text of paragraphs (c)(4) and (d) to read as follows:

§ 1.929 Classification of filings as major or minor.

* * * * *

(c) * * *

(4) In the Private Land Mobile Radio Services (PLMRS), the remote pickup broadcast auxiliary service, and GMRS systems licensed to non-individuals:

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(d) In the microwave, aural broadcast auxiliary, and television broadcast auxiliary services:

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**PART 2 – FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL
RULES AND REGULATIONS**

5. The authority citation for Part 2 continues to read as follows:

AUTHORITY: 47 U.S.C. 154, 302a, 303, and 336, unless otherwise noted.

6. Section 2.106, the Table of Frequency Allocations. is amended as follows:

(a) Revise pages 25, 26, 37, 38, and 76.

(h) In the list of United States Footnotes. revise footnote US11 and delete footnote US291.

(c) In the list of Non-Federal Government Footnotes, revise footnotes NG53 and NG I I5 and add footnote NG175.

The revisions read as follows:

§ 2.106 Table of Frequency Allocations.

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50-123			5 (VHF)		Page 25
International Table			United States Table		CC Rule Part(s)
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government	
See previous page for 47-68 MHz	0-54 AMATEUR 162A 5 166 5 167 5 168 5 170		1-73	0-54 AMATEUR	Amateur (97)
	4-68 BROADCASTING Fixed Mobile 1.172	4-68 FIXED MOBILE BROADCASTING .162A		4-72 BROADCASTING NG115 NG128 NG149	Broadcast Radio (TV) (73) Auxiliary Broadcasting (741)
68-74 8 FIXED MOBILE except aeronautical mobile 5 1495 1745 1755177 5 179	8-72 BROADCASTING Fixed Mobile 5.173	8-74 8 FIXED MOBILE 5 149 5 176 5 179		72-73 FIXED MOBILE NG3 NG49 NG56	Public Mobile (22) Private Land Mobile (90) Personal Radio (95)
	73-74 6 RADIO ASTRONOMY 5 178			3-74 6 RADIO ASTRONOMY US74	
	74 6-74.8 FIXED MOBILE			4.6-74 8 FIXED MOBILE JS273	Private Land Mobile (90)
	74.8-75 2 AERONAUTICAL RADIONAVIGATION			74.8-75 2 AERONAUTICAL RADIONAVIGATION 5 180	Aviation (87)
75 2-87 5 FIXED MOBILE except aeronautical mobile	75 2-75 4 FIXED MOBILE 5 179		75.2-75.4 FIXED MOBILE JS273	Private Land Mobile (90)	

5 1755 1795 1845 187 87 5-100 BROADCASTING 5 190	75.4-76 FIXED MOBILE	75.4-87 FIXED MOBILE	5 4-88	75 4-76 FIXED MOBILE NG3 NG49 NG56	Public Mobile (22) Private Land Mobile (90) Personal Radio (95)
	76-88 BROADCASTING Fixed Mobile	5 182 5 183 5 188 87-100		BROADCASTING	Broadcast Radio (TV) (73) Auxiliary Broadcasting (74)
	87 5-100 BROADCASTING	5.185	MOBILE BROADCASTING	NG115 NG128 NG129 NG149	
	5 190	88-100 BROADCASTING			
			8-108	88-108 BROADCASTING	Broadcast Radio (FM) (73) Auxiliary Broadcasting (74)
5.192 5 194			JS93	US93 NG2 NG128 NG129	
108-117.975 AERONAUTICAL RADIONAVIGATION 5.197			08-117 975 AERONAUTICAL RADIONAVIGATION JS93		Note The NTIA Manual (footnote G126) states that differential GPS stations may be authorized in the 108-117 975 MHz band but the FCC has not yet addressed this footnote
117.975-137 AERONAUTICAL MOBILE (R)			117.975-121.9375 AERONAUTICAL MOBILE (R)		Aviation (87)
			5.111 5.199 5.200 591 US26 US28		
			121 9375-123 0875	121 9375-123.0875 AERONAUTICAL MOBILE	
			591 US30 US31 US33 US80 US102 US213	591 US30 US31 US33 US80 US102 US213	
			123 0875-123.5875 AERONAUTICAL MOBILE 5.200 591 US32 US33 US112		
5.111 5.198 5.199 5.200 5.201 5.202 5.203 5.203A 5.203B			See next page for 123.5875-137 MHz		See next page for 123 5875-137 MHz

International Table			United States Table		FCC Rule Part(s)
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government	
470-790 BROADCASTING	470-512 BROADCASTING Fixed Mobile	470-585 FIXED MOBILE BROADCASTING	70-608	470-512 BROADCASTING NG128 NG149 FIXED NG127 LAND MOBILE NG66 NG114	Public Mobile (22) Broadcast Radio (TV) (73) Auxiliary Broadcasting (74) Private Land Mobile (90)
	5.292 5 293			NG115	
	512-608 BROADCASTING	5.291 5 298		512-608 BROADCASTING NG128 NG149	Broadcast Radio (TV) (73) Auxiliary Broadcasting (74)
	5 297	585-610 FIXED MOBILE BROADCASTING RADIONAVIGATION	608-614 RADIO ASTRONOMY US74 AND MOBILE US350		Personal (95)
	608-614 RADIO ASTRONOMY Mobile-satellite except aeronautical mobile-satellite (Earth-to-space)	5149530553065307			
	614-806 BROADCASTING Fixed Mobile	610-890 FIXED MOBILE 5 317A BROADCASTING	JS246		
			614-890	614-698 BROADCASTING NG128 NG149	Broadcast Radio (TV) (73) Auxiliary Broadcasting (74)
				NG115	
				698-746 BROADCASTING NG128 FIXED MOBILE	Wireless Communications (27) Broadcast Radio (TV) (73) Auxiliary Broadcasting (74)
				NG115 NG159	

5 149 5 291A 5 294 5 296 5 300 5 302 5 304 5 306 5311 5312 790-862 FIXED BROADCASTING				746-764 BROADCASTING NG128 FIXED MOBILE NG115 NG159	Wireless Communications (27) Broadcast Radio (TV) (73) Auxiliary Broadcast (74) Private Land Mobile (90)
				764-776 FIXED MOBILE NG115 NG128 NG158 NG159	Auxiliary Broadcasting (74) Private Land Mobile (90)
790-862 FIXED BROADCASTING				776-794 BROADCASTING NG128 FIXED MOBILE NG115 NG159	Wireless Communications (27) Broadcast Radio (TV) (73) Auxiliary Broadcast (74) Private Land Mobile (90)
				794-806 FIXED MOBILE NG115 NG128 NG158 NG159	Auxiliary Broadcasting (74) Private Land Mobile (90)
	,293 5.309 5 311			806-821 FIXED LAND MOBILE NG30 NG31 NG43 NG63	Public Mobile (22) Private Land Mobile (90)
	06-890 FIXED MOBILE 5 317A BROADCASTING			821-824 LAND MOBILE NG30 NG43 NG63	Private Land Mobile (90)
				824-849 FIXED LAND MOBILE NG30 NG43 NG63 NG151	Public Mobile (22)
531253145315 5 316 5 319 5 321 See next page for 862-890 MHz			149 5 305 5 306 5 307 ,311 5.320	See next page for 849-894 MHz	See next page for 866-896 MHz
	5.317 5.318				

EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5 149	36-37 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) US263 US342		
37-37.5 FIXED MOBILE SPACE RESEARCH (space-to-Earth) 5 547	37-38 FIXED MOBILE SPACE RESEARCH (space-to-Earth)	37-37.6 FIXED MOBILE	
37.5-38 FIXED FIXED-SATELLITE (space-to-Earth) 5 551AA MOBILE SPACE RESEARCH (space-to-Earth) Earth exploration-satellite (space-to-Earth) 5 547		37.6-38.6 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE	satellite Communications (25)
38-39.5 FIXED FIXED-SATELLITE (space-to-Earth) 5 551AA MOBILE Earth exploration-satellite (space-to-Earth) 5.547	38-38.6 FIXED MOBILE 38.6-39.5	38.6-39.5 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE NG175	Fixed Microwave (101)
39.5-40 FIXED FIXED-SATELLITE (space-to-Earth) 5.551AA MOBILE MOBILE-SATELLITE (space-to-Earth) Earth exploration-satellite (space-to-Earth) 5.547	39.5-40 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) G117	39.5-40 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE NG175 MOBILE-SATELLITE (space-to-Earth)	

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UNITED STATES (US) FOOTNOTES

* * * * *

US11 The use of the frequencies 166.25 and 170.15 MHz may be authorized to non-Federal Government remote pickup broadcast base and land mobile stations and to non-Federal Government base, fixed and land mobile stations in the public safety radio services on the condition that harmful interference shall not be caused to present or future Federal Government stations in the band 162-174 MHz. Authorization on these frequencies shall be in the lower 48 contiguous States only, except within the area bounded on the west by the Mississippi River, on the north by the parallel of latitude 37° 30' N., and on the east and south by that arc of the circle with center at Springfield, Illinois, and radius equal to the airline distance between Springfield, Illinois, and Montgomery, Alabama, subtended between the foregoing west and north boundaries. The use of these frequencies by remote pickup broadcast stations shall not be authorized for locations within 150 miles (241.4 km) of New York City; and use of these frequencies by the public safety radio services shall not be authorized except for locations within 150 miles of New York City.

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NON-FEDERAL GOVERNMENT (NG) FOOTNOTES

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NG53 In the band 12.7-13.15 GHz, television pickup stations and CARS pickup stations shall be assigned channels on a co-equal basis and shall operate on a secondary basis to fixed stations operating in accordance with the Table of Frequency Allocations. In the band 13.15-13.20 GHz, television pickup stations and CARS pickup stations shall be assigned channels on a primary co-equal basis within 50 kilometers of the television markets defined in 47 C.F.R. § 76.53. In the band 13.20-13.2125 GHz, television pickup stations shall be assigned channels on a primary basis, and CARS fixed and pickup stations shall operate on a secondary basis to television broadcast auxiliary stations.

* * * * *

NG115 In the bands 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz, and 614-806 MHz, wireless microphones and wireless assist video devices may be authorized on a non-interference basis, subject to the terms and conditions set forth in 47 C.F.R. part 74, subpart H.

* * * * *

NG175 Television pickup stations in the mobile services authorized to use frequencies in the band 38.6-40.0 GHz on or before (insert date **30** days after publication in the Federal Register), may continue to operate on a secondary basis to stations operating in accordance with the Table of Frequency Allocations.

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PART 73 – RADIO BROADCAST SERVICES

7. The authority citation for Part 73 continues to read as follows:

AUTHORITY: 47 U.S.C. 154,303,3334, and 336.

8. Section 73.3500 is amended by removing the entries for Forms 313 and 313-R from the table in paragraph (a) and adding an entry for Forms 601 and 603 to read as follows:

§ 73.3500 Application and report forms.

(a) * * *

Form number	Title
* * * * *	* * * * *
601	FCC Application for Wireless Telecommunications Bureau Radio Service Authorization
603	FCC Wireless Telecommunications Bureau Application for Assignments of Authorization and Transfers of Control

* * * * *

9. Section 73.3533 is amended by removing and reserving paragraph (a)(3)

§ 73.3533 Application for construction permit or modification of construction permit.

(a) * * *

(3) [Reserved]

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10. Section 73.3536 is amended by removing and reserving paragraph (b)(3)

§ 73.3536 Application for license to cover construction permit.

(b) * * *

(3) [Resewed]

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11. Section 73.3598 is amended by revising paragraph (a) to read as follows:

§ 73.3598 Period of construction.

(a) Each original construction permit for the construction of a new TV. AM, FM or International Broadcast; low power TV; TV translator; TV booster; FM translator; or FM booster, or to make changes

in such existing stations, shall specify a period of three years from the date of issuance of the original construction permit within which construction shall be completed and application for license filed.

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PART 74 –EXPERIMENTAL RADIO, AUXILIARY, SPECIAL BROADCASTING AND OTHER PROGRAM DISTRIBUTIONAL SERVICES

12. The authority citation for Part 74 continues to read as follows:

AUTHORITY: 47 U.S.C. 154, 303, 307, 336(f), 336(h) and 554.

13. Section 74.5 is amended by redesignating paragraphs (a)(4) through (a)(6) as paragraphs (a)(5) through (a)(7), adding a new paragraph (a)(4), and adding a new paragraph (9) to read as follows:

574.5 Cross reference *to* rules in other parts.

* * * * *

(a) * * *

(4) Subpart F, "Wireless Telecommunications Services Applications and Proceedings". (§§ 1.901 to 1.981).

* * * * *

(f) Part 101, "Fixed Microwave Services".

14. A new Section 74.6 is added to read as follows:

§ 74.6 Licensing of broadcast auxiliary and low power **auxiliary** stations.

Applicants for and licensees of remote pickup broadcast stations, aural broadcast auxiliary stations, television broadcast auxiliary stations, and low power auxiliary stations authorized under subparts D, E, F, and H of this part are subject to the application and procedural rules for wireless telecommunications services contained in part 1, subpart F of this chapter. Applicants for these stations may file either manually or electronically as specified in § 1.913(b) and (d) of this chapter.

15. Section 74.15 is amended by revising the second sentence and deleting the last sentence of paragraph (f) to read as follows:

§ 74.15 Station license period.

* * * * *

(f) * * * An application for renewal of license shall be filed in accordance with the provisions of § 1.949.

* * * * *

16. Section 74.24 is amended by revising the introductory text and paragraphs (a), (d), (f), (g), and the last two sentences of paragraph (i). by adding a **new** sentence to the end of paragraph (h)(1), and by removing the Note after paragraph (g) to read as follows:

§ 74.24 Short term operation.

All classes of broadcast auxiliary stations provided for in subparts D, E, **F** and **H** of this part, except wireless video assist devices, may be operated on a short-term basis under the authority conveyed by a Part 73 license or a broadcast auxiliary license without prior authorization from the FCC, subject to the following conditions:

(a) Licensees operating under this provision must be eligible to operate the particular class of broadcast auxiliary station.

* * * * *

(d) Short-term operation under this section shall not exceed 720 hours annually per frequency.

Note: Certain frequencies shared with other services which are normally available for permanent broadcast auxiliary station assignment may not be available for short-term operation. Refer to any note(s) which may be applicable to the use of a specific frequency prior to initiating operation.

* * * * *

(f) Stations operated pursuant to this section shall be identified by the transmission of the call sign of the associated Part 73 broadcast station or broadcast auxiliary station, or, in the case of stations operated by broadcast network and cable network entities, by the network or cable entity's name and base of operations city.

(g) Prior to operating pursuant to the provisions of this section, licensees shall, for the intended location or area-of-operation, notify the appropriate frequency coordination committee or any licensee(s) assigned the use of the proposed operating frequency, concerning the particulars of the intended operation and shall provide the name and telephone number of a person who may be contacted in the event of interference. Except as provided below, this notification provision shall not apply where an unanticipated need for immediate short-term mobile station operation would render compliance with the provisions of this paragraph impractical.

(1) A CARS licensee shall always be given advance notification prior to the commencement of short-term operation on or adjacent to an assigned frequency.

(2) The Commission may designate a frequency coordinator as the single point of contact under this section for advance coordination of major national and international events. Once designated, all short-term auxiliary broadcast use under this section must be coordinated in advance through the designated coordinator.

(i) Coordinators under this provision will not be designated unless the Commission receives an initial request, in writing, to designate a coordinator.

(ii) The Commission will issue a Public Notice with information regarding the designation of such a coordinator.

(iii) All coordination must be done on a non-discriminatory basis

(iv) All licensees must abide by the decision of the coordinator. The Commission will be the final arbiter of any disputes.

(3) An unanticipated need will never be deemed to exist for a scheduled event, such as a convention, sporting event, etc.

(h) * * *

(1) * * * Sec § 1.928(e) of this chapter for a definition of Line A and Line C

* * * * *

(i) * * * It shall simply be necessary for the licensee to contact the potentially affected agency and obtain advance approval for the proposed short-term operation. Where protection to FCC monitoring stations is concerned, approval for short-term operation may be given by the District Director of a Commission field facility.

* * * * *

17. A new Section 74.25 is added to read as follows:

§ 74.25 Temporary conditional operating authority.

An applicant for a new broadcast auxiliary radio service station or a modification of an existing station under subparts D, E, F, or H of this part may operate the proposed station during the pendency of its applications upon the filing of a properly completed formal application that complies with the rules for the particular class of station, provided that the conditions set forth below are satisfied.

(a) Conditions applicable to all broadcast auxiliary stations,

(i) Stations operated pursuant to this section shall be identified by the transmission of the call sign of the associated Part 73 broadcast station, if one exists, or the prefix "WT" followed by the applicant's local business telephone number for broadcast or cable network entities.

(ii) The antenna structure(s) has been previously studied by the Federal Aviation Administration and determined to pose no hazard to aviation safety as required by subpart B of part 17 of this chapter; or the antenna or tower structure does not exceed 6.1 meters above ground level or above an existing man-made structure (other than an antenna structure), if the antenna or tower has not been previously studied by the Federal Aviation Administration and cleared by the FCC;

(iii) The grant of the application(s) does not require a waiver of the Commission's rules;

(iv) The applicant has determined that the facility(ies) will not significantly affect the environment as defined in § 1.1307 of this chapter;

(v) The station site does not lie within a radio "Quiet Zone" identified in § 1.924 of this chapter.

(b) Conditions applicable to remote pickup broadcast auxiliary stations.

(i) The auxiliary station must be located within 80 km (50 mi) of the broadcast studio or broadcast transmitter.

(ii) The applicant must coordinate the operation with all affected co-channel and adjacent channel licensees in the area of operation. This requirement can be satisfied by coordination with the local frequency committee **if** one exists.

(iii) Operation under this provision is not permitted between 152.87 MHz and 153.35 MHz

(c) Conditions applicable to aural and television broadcast auxiliary stations

(i) The applicable frequency coordination procedures have been successfully completed and the tiled application is consistent with that coordination.

(ii) The station site does not lie within an area requiring international coordination

(iii) If operated on frequencies in the 17.8-19.7 GHz band, the station site does not lie within any of the areas identified in § 1.924 of this chapter.

(d) Operation under this section shall be suspended immediately upon notification from the Commission or by the District Director of a Commission field facility, and shall not be resumed until specific authority is given by the Commission or District Director. When authorized by the District Director, short test operations may be made.

(e) Conditional authority ceases immediately **if** the application(s) is returned by the Commission because it is not acceptable for tiling.

(f) Conditional authorization does not prejudice any action the Commission may take on the subject application(s). Conditional authority is accepted with the express understanding that such authority may be modified or cancelled by the Commission at any time without hearing **if**, in the Commission's discretion, the need for such action arises. An applicant operating pursuant to this conditional authority assumes all risks associated with such operation, the termination or modification of the conditional authority, or the subsequent dismissal or denial of its application(s).

18. A new Section 74.34 is added to read as follows:

§ 74.34 Period of construction; certification of completion of construction.

(a) Each aural and television broadcast auxiliary station authorized under subparts E and F of this part must be in operation within 18 months from the **initial** date of grant.

(b) Each remote pickup broadcast auxiliary station authorized under subpart D of this part must be in operation within 12 months from the initial date of grant.

(c) Failure to timely begin operation **means** the authorization terminates automatically.

(d) Requests for extension of time **may** be granted **upon** a showing of good cause pursuant to § 1.946(e) of this chapter.

(e) Construction of any authorized facility or frequency must be completed by the date specified in the license and the Commission must be notified pursuant to § 1.946 of this chapter.

19. Section 74.402 is revised to read as follows:

§ 74.402 Frequency assignment.

Operation on all channels listed in this section (except: frequencies 26.07 MHz, 26.11 MHz, and 26.45 MHz, and frequencies listed in paragraphs (a)(4) and (c)(1) of this section) shall be in accordance with the "priority of use" provisions in § 74.403(b). The channel will be assigned by its center frequency, channel bandwidth, and emission designator. In general, the frequencies listed in this section represent the center of the channel or channel segment. When an even number of channels are stacked in those sections stacking is permitted, channel assignments may be made for the frequency halfway between those listed.

(a) The following channels (except 1606, 1622, and 1646 kHz) may be assigned for use by broadcast remote pickup stations using any emission (other than single sideband or pulse) that will be in accordance with the provisions of § 74.462.

(1) MF Channels: 1606, 1622, and 1646 kHz. The channel 1606 kHz is subject to the condition listed in paragraph (e)(1) of this section.

(2) HF Channels: 25.87, 25.91, 25.95, 25.99, 26.03, 26.07, 26.09, 26.11, 26.13, 26.15, 26.17, 26.19, 26.21, 26.23, 26.25, 26.27, 26.29, 26.31, 26.33, 26.35, 26.37, 26.39, 26.41, 26.43, 26.45, and 26.47 MHz. The channels 25.87-26.09 MHz are subject to the condition listed in paragraph (e)(2) of this section.

(3) VHF Channels: 166.25 and 170.15 MHz. These channels are subject to the condition listed in paragraph (e)(8) of this section.

(4) UHF Channels: Up to two of the following 6.25 kHz segments may be stacked to form a channel which may be assigned for use by broadcast remote pickup stations using any emission contained within the resultant channel in accordance with the provisions of § 74.462: 450.00625 MHz, 450.0125 MHz, 450.01875 MHz, 450.025 MHz, 450.98125 MHz, 450.9875 MHz, 450.99375 MHz, 455.00625 MHz, 455.0125 MHz, 455.01875 MHz, 455.025 MHz, 455.98125 MHz, 455.9875 MHz, and 455.99375 MHz. These channels are subject to the condition listed in paragraph (e)(9) of this section.

(b) Up to four of the following 7.5 kHz VHF segments and up to eight of the following 6.25 kHz UHF segments may be stacked to form a channel which may be assigned for use by broadcast remote pickup stations using any emission contained within the resultant channel in accordance with the provisions of § 74.462.

(1) VHF segments: 152.8625, 152.870, 152.8775, 152.885, 152.8925, 152.900, 152.9075, 152.915, 152.9225, 152.930, 152.9375, 152.945, 152.9525, 152.960, 152.9675, 152.975, 152.9825, 152.990, 152.9975, 153.005, 153.0125, 153.020, 153.0275, 153.035, 153.0425, 153.050, 153.0575, 153.065, 153.0725, 153.080, 153.0875, 153.095, 153.1025, 153.110, 153.1175, 153.125, 153.1325, 153.140, 153.1475, 153.155, 153.1625, 153.170, 153.1775, 153.185, 153.1925, 153.200, 153.2075, 153.215, 153.2225, 153.230, 153.2375, 153.245, 153.2525, 153.260, 153.2675, 153.275, 153.2825, 153.290, 153.2975, 153.305, 153.3125, 153.320, 153.3275, 153.335, 153.3425, 153.350, and 153.3575. These channels are subject to the conditions listed in paragraphs (e) (3), (4), (5), and (10) of this section.

(2) VHF segments: 160.860, 160.8675, 160.875, 160.8825, 160.890, 160.8975, 160.905, 160.9125, 160.920, 160.9275, 160.935, 160.9425, 160.950, 160.9575, 160.965, 160.9725, 160.980, 160.9875, 160.995, 161.0025, 161.010, 161.0175, 161.025, 161.0325, 161.040, 161.0475, 161.055,

(1) UHF segments: 450.900, 450.950, 455.900, and 455.950 MHz

(2) [Reserved]

(e) Conditions on Broadcast Remote Pickup Service channel usage as referred to in paragraphs (a) through (d) of this section:

(1) Operation is subject to the condition that no harmful interference is caused to the reception of **AM** broadcast stations.

(2) Operation is subject to the condition that no harmful interference is caused to stations in the broadcast service.

(3) Operation is subject to the condition that no harmful interference is caused to stations operating in accordance with the Table of Frequency Allocations set forth in Part 2 of the Commission's Rules and Regulations. Applications for licenses to use frequencies in this band must include statements showing what procedures will be taken to ensure that interference will not be caused to stations in the Industrial/Business Pool (Part 90).

(4) These frequencies will not be licensed to network entities

(5) These frequencies will not be authorized to new stations for use on board aircraft.

(6) These frequencies are allocated for assignment to broadcast remote pickup stations in Puerto Rico or the Virgin Islands only.

Note: These frequencies are shared with Public Safety and Industrial/Business Pools (Part 90).

(7) These frequencies may not be used by broadcast remote pickup stations in Puerto Rico or the Virgin Islands. In other areas, certain existing stations in the Public Safety and Industrial/Business Pools (Part 90) have been permitted to continue operation on these frequencies on the condition that no harmful interference is caused to broadcast remote pickup stations.

(8) Operation on frequencies 166.25 MHz and 170.15 MHz is subject to the condition that harmful interference shall not be caused to present or future Government stations in the band 162-174 MHz and is also subject to the bandwidth and tolerance limitations and compliance deadlines listed in § 74.462 of this part. Authorization on these frequencies shall be in the lower 48 contiguous States only, except within the area bounded on the west by the Mississippi River, on the north by the parallel of latitude 37° 30' N., and on the east and south by that arc of the circle with center at Springfield, Illinois, and radius equal to the airline distance between Springfield, Illinois, and Montgomery, Alabama, subtended between the foregoing west and north boundaries, or within 150 miles (241.4 km) of New York City.

(9) The use of these frequencies is limited to operational communications, including tones for signaling and for remote control and automatic transmission system control and telemetry. Stations licensed or applied for before (insert date 30 days after publication in the Federal Register), must comply with the channel plan by (insert date three years after publication in the Federal Register), or may continue to operate on a secondary, non-interference basis.

(10) Stations licensed or applied for before **(insert date 30 days after publication in the Federal Register)**, must comply with the channel plan by **(insert date three years after publication in the Federal Register)**, or may continue to operate on a secondary, non-interference basis.

(f) License applicants shall request assignment of only those channels, both in number and bandwidth, necessary for satisfactory operation and for which the system is equipped to operate. However, it is not necessary that each transmitter within a system be equipped to operate on all frequencies authorized to that licensee.

(g) Remote pickup stations or systems will not be granted exclusive channel assignments. The same channel or channels may be assigned to other licensees in the same area. When such sharing is necessary, the provisions of § 74.403 shall apply.

20. Section 74.403 is amended by revising the first sentence of paragraph (b) to read as follows:

§ 74.403 Frequency selection to avoid interference.

* * * * *

(b) The following order of priority of transmissions shall be observed on all frequencies except frequencies 26.07 MHz, 26.11 MHz, and 26.45 MHz, and frequencies listed in § 74.402(a)(4) and (c)(1) of this part:

* * * * *

21. Section 74.431 is amended by revising the first sentence of paragraph (i) and removing and reserving paragraph (g) to read as follows:

§ 74.431 Special rules applicable to remote pickup stations.

* * * * *

(g) [Reserved]

* * * * *

(i) Remote pickup mobile or base stations may be used for activities associated with the Emergency Alert System (EAS) and similar emergency survival communications systems. * * *

22. Section 74.432 is amended revising paragraphs (b) and (g) and the first sentence of paragraph (k) to read as follows:

§ 74.432 Licensing requirements and procedures.

* * * * *

(b) Base stations may operate as automatic relay stations on the frequencies listed in § 74.402(b)(4) and (c)(1) of this part under the provisions of § 74.436, however, one licensee may not operate such stations on more than two frequency pairs in a single area.

* * * * *

(g) An application for a remote pickup broadcast station or system shall specify the broadcasting station with which the remote pickup broadcast facility is to be principally used and the licensed area of operation for a system which includes mobile stations shall be the area considered to be served by the associated broadcasting station. Mobile stations may be operated outside the licensed area of operation pursuant to § 74.24 of this part. Where the applicant for remote pickup broadcast facilities is the licensee of more than one class of broadcasting station (AM, FM, TV), all licensed to the same community, designation of one such station as the associated broadcasting station will not preclude use of the remote pickup broadcast facilities with those broadcasting stations not included in the designation and such additional use shall be at the discretion of the licensee.

* * * * *

(k) In case of permanent discontinuance of operations of a station licensed under this subpart, the licensee shall cancel the station license using FCC Form 601. * * *

23. Section 74.433 is amended by revising paragraphs (b) and (c) to read as follows:

§ 74.433 Temporary authorizations.

* * * * *

(b) A request for special temporary authority for the operation of a remote pickup broadcast station must be made in accordance with the procedures of § 1.931(b) of this chapter.

(c) All requests for special temporary authority of a remote pickup broadcast station must include full particulars including: licensee's name and address, facility identification number of the associated broadcast station or stations, call letters of remote pickup station (if assigned), type and manufacturer of equipment, power output, emission, frequency or frequencies proposed to be used, Commencement and termination date, location of operation and purpose for which request is made including any particular justification.

* * * * *

24. Section 74.451 is amended by revising paragraph (a) to read as follows:

§ 74.451 Certification of equipment.

(a) Applications for new remote pickup broadcast stations or systems or for changing transmitting equipment of an existing station will not be accepted unless the transmitters to be used have been certificated by the FCC pursuant to the provisions of this subpart, or have been certificated for licensing under Part 90 of the FCC rules and do not exceed the output power limits specified in § 74.461(b).

* * * * *

25. Section 74.452 is revised to read as follows:

§ 74.452 Equipment changes.

(a) Modifications may be made to an existing authorization in accordance with §§ 1.929 and 1.947 of this chapter.

(b) All transmitters initially installed after November 30, 1977, must be certificated for use in this service or other service as specified in § 74.451(a).

26. Section 74.462 is amended by revising paragraph (a), the table in paragraph (b), and the introduction to paragraph (c), and removing paragraphs (e), (f), and (g) to read as follows:

§ 74.462 Authorized bandwidth and emissions.

(a) Each authorization for a new remote pickup broadcast station or system shall require the use of certificated equipment and such equipment shall be operated in accordance with emission specifications included in the grant of certification and as prescribed in paragraphs (b), (c), and (d) of this section

(b) * * *

Frequencies	Authorized bandwidth (kHz)	Maximum frequency deviation' (kHz)	Type of emission'	
kHz				
1606, 1622, and 1646.....	10	N/A	A3E	
MHz				
25.87 to 26.03.....	40	10	Frequencies 25.87 to 153.3575 MHz: A3E, F1E, F3E, F9E	
26.07 to 26.47	20	5		
152.8625 to 153.3575 ³	30/60	5/10	Frequencies 160.860 to 455.950 MHz: A1A, A1B, A1D, A1E, A2A, A2B, A2D, A2E, A3E, F1A, F1B, F1D, F1E, F2A, F2B, F2D, F2E, F3E, F9E	
160.860 to 161.400	60	10		
161.625 to 163.775.....	30	5		
166.25 and 170.15 ⁴	12.5/25	5		
450.00625 to 450.025	Up to 12.5	1.5		
450.98125 to 450.99375				
455.00625 to 455.025				
455.98125 to 455.99375.....	Up to 25	5		
450.03125 to 450.63875				
455.03175 to 455.61875	25 - 50	10		
450.6375 to 450.8625				
455.6375 to 455.8625.....	50 - 100	35		
450.900, 450.950				
455.900, 455.950				

¹ F2B, F2D, F2E, F3E, or F9E emissions are used.

² Stations operating above 450 MHz shall show a need for employing A1A, A1B, A1D, A1E, A2A, A2B, A2D, A2E, F1A, F1B, F1D, F1E, F2A, F2B, F2D, or F2E emission.

³ New or modified licenses for use of the frequencies will not be granted to **utilize** transmitters on board aircraft, or to use a bandwidth in excess of 30 kHz and maximum deviation exceeding 5 kHz

⁴ For stations licensed or applied for before (insert date **30** days after publication in the Federal Register), the sum of the bandwidth of emission and tolerance on frequencies 166.25 MHz or 170.15 MHz shall not exceed 25 kHz, and such operation may continue until January 1, 2005. For new stations licensed or applied for on or after (insert date **30** days after publication in the Federal Register), the sum of the bandwidth of emission and tolerance on these frequencies shall not exceed 12.5

kH7. For all remote pickup broadcast stations, the sum of the bandwidth of emission and tolerance on these frequencies shall not exceed 12.5 kHz on or after January 1, 2005.

* * * * *

(c) For emissions on frequencies above 25 MHz with authorized bandwidths up to 30 kHz, the emissions shall comply with the emission mask and transient frequency behavior requirements of §§ 90.210 and 90.214 of this chapter. For all other emissions, the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

* * * * *

27. Section 74.464 is amended by revising the introductory text to the table to read as follows:

§ 74.464 Frequency tolerance.

For operations on frequencies above 25 MHz using authorized bandwidths up to 30 kHz, the licensee ~~of~~ a remote pickup broadcast station or system shall maintain the operating frequency of each station in compliance with the frequency tolerance requirements of § 90.213 of this chapter. For all other operations, the licensee of a remote pickup broadcast station or system shall maintain the operating frequency of each station in accordance with the following:

* * * * *

28. Section 74.482 is amended by revising the second sentence of paragraph (a) and paragraph (e) to read as follows:

§ 74.482 Station identification.

(a) * * * For systems, the licensee (including those operating pursuant to § 74.24 ~~of~~ this part) shall assign a unit designator to each station in the system. * * *

* * * * *

(e) For stations using F1E or G1E emissions, identification shall be transmitted in the unscrambled analog (F3E) mode or in International Morse Code pursuant to the provisions of paragraph (d) of this section at intervals not to exceed 15 minutes. For purposes of rule enforcement, all licensees using F1E or G1E emissions shall provide, upon request by the Commission, a full and complete description of the encoding methodology they currently use.

* * * * *

29. Section 74.502 is amended by removing the second sentence of the introductory text of paragraph (b), revising the last sentence of the introductory text of paragraph (b), adding two new sentences to the end of the introductory text of paragraph (b), revising paragraph (c)(1)(ii), and revising paragraph (d) to read as follows:

§ 74.502 Frequency assignment.

(a) * * * * *

(b) * * * The frequencies listed below are the centers of individual segments. When stacking an even number of segments, the center frequency specified will deviate from the list below in that it should correspond to the actual center of stacked channels. When stacking an odd number of channels, the center frequency specified will correspond to one of the frequencies listed below.

* * * * *

(c) * * *

(1) * * *

(ii) Licensees may use either a **two-way** link or one frequency of a frequency pair for a one-way link.

* * * * *

(d) For the coordination of all frequency assignments for fixed stations above 944 MHz, for each frequency authorized under this part, the interference protection criteria in § 101.105(a), (b), and (c) of this chapter and the frequency usage coordination procedures of § 101.103(d) of this chapter will apply.

* * * * *

30. Section 74.532 is amended by removing the Note following paragraph (d) and revising paragraph (f) to read as follows:

§ 74.532 Licensing requirements.

* * * * *

Frequency Band (MHz)	Maximum Allowable ¹ EIRP (dBW)
----------------------	--

944 to 952	+40
17,700 to 18,600	+55
18,600 to 19,700	+35

Stations licensed based on an application filed before (insert date **30** days after publication in the Federal Register), for EIRP values exceeding those specified above, may continue to operate indefinitely in accordance with the terms of their current authorizations, subject to periodic renewal.

(c) The EIRP of transmitters that use Automatic Transmitter Power Control (ATPC) shall not exceed the EIRP specified on the station authorization. The EIRP of non-ATPC transmitters shall be maintained as near as practicable to the EIRP specified on the station authorization.

32. Section 74.535 is amended by revising paragraphs (a), (b) and (d), removing existing paragraphs (e) and (f), and redesignating paragraph (g) as paragraph (e) to read as follows:

§ 74.535 Emission and bandwidth.

(a) The mean power of emissions shall be attenuated below the mean transmitter power (P_{MEAN}) in accordance with the following schedule:

(1) When using frequency modulation:

(i) On any frequency removed from the assigned (center) frequency by more than 50% up to and including 100% of the authorized bandwidth: At least 25 dB in any 100 kHz reference bandwidth (B_{REF});

(ii) On any frequency removed from the assigned (center) frequency by more than 100% up to and including 250% of the authorized bandwidth: At least 35 dB in any 100 kHz reference bandwidth;

(iii) On any frequency removed from the assigned (center) frequency by more than 250% of the authorized bandwidth: At least $43 + 10 \log_{10}(P_{\text{MEAN}} \text{ in watts})$ dB, or 80 dB, whichever is the lesser attenuation, in any 100 kHz reference bandwidth.

(2) When using transmissions employing digital modulation techniques:

(i) For operating frequencies below 15 GHz, in any 4 kHz reference bandwidth (B_{REF}), the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 250 percent of the authorized bandwidth: As specified by the following equation but in no event less than 50 decibels:

$$A = 35 + 0.8(G - 50) + 10 \log_{10} B.$$

(Attenuation greater than 50 decibels is not required.)

where:

A = Attenuation (in decibels) below the mean output **power level**.

G = Percent removed from the carrier frequency.

B = Authorized bandwidth in megahertz.

(ii) For operating frequencies above 15 GHz, in any 1 MHz reference bandwidth (B_{REF}), the center frequency of which is removed from the assigned frequency by more than 50 percent up to and

including 250 percent of the authorized bandwidth: As specified by the following equation but in no event less than 11 decibels:

$$A = 11 + 0.4(G - 50) + 10 \log_{10} B.$$

(Attenuation greater than 56 decibels is not required.)

(iii) In any 4 kHz reference bandwidth (B_{REF}), the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log_{10}(P_{MEAN}$ in watts) decibels, or 80 decibels, whichever is the lesser attenuation.

(b) For all emissions not covered in paragraph (a) of this section, the peak power of emissions shall be attenuated below the peak envelope transmitter power (P_{PEAK}) in accordance with the following schedule:

(1) On any frequency 500 Hz inside the channel edge up to and including 2500 Hz outside the same edge, the following formula will apply:

$$A = 29 \log_{10} [(25/11)[(D + 2.5 - (W/2))^2] \text{ dB}$$

(Attenuation greater than 50 decibels is not required.)

Where:

A = Attenuation (in dB) below the peak envelope transmitter power.
 D = the displacement Frequency (kHz) from the center of the authorized bandwidth
 W = the channel bandwidth (kHz).

(2) On any frequency removed from the channel edge by more than 2500 Hz: At least $43 + 10 \log_{10}(P_{PEAK}$ in watts) dB.

* * * * *

(d) For purposes of compliance with the emission limitation requirements of this section:

(1) If the transmitter modulates a single carrier, digital modulation techniques are considered as being employed when digital modulation occupies 50 percent or more of the total peak frequency deviation of a transmitted radio frequency carrier. The total peak frequency deviation will be determined by adding the deviation produced by the digital modulation signal and the deviation produced by any frequency division multiplex (FDM) modulation used. The deviation (D) produced by the FDM signal must be determined in accordance with § 2.202(f) of this chapter.

(2) If the transmitter modulates two or more carriers, with at least one using digital modulation and one using frequency or other analog modulation, digital modulation techniques are considered as being employed when the necessary bandwidth of the digital signal(s) is 50 percent or more of the aggregate bandwidth of the system, comprising the digital necessary bandwidth(s), the analog necessary bandwidth(s), and any bandwidth(s) between the digital and analog necessary bandwidths. In this case, the aggregate bandwidth shall be used for the authorized bandwidth (B) in paragraph (a) of this section, and for purposes of compliance with the bandwidth limitations in § 74.502 of this subpart; and the sum of the powers of the analog and digital signals shall be used for mean transmitter power (P_{MEAN}) in paragraph (a) or the peak envelope transmitter power (P_{PEAK}) in paragraph (b) of this section, and for purposes of compliance with the power limitations in § 74.534 of this subpart.

(3) For demonstrating compliance with the attenuation requirements for frequency modulation and digital modulation in paragraph (a) of this section, the resolution bandwidth (B_{RES}) of the measuring equipment used for measurements removed from the center frequency by more than 250 percent of the authorized bandwidth shall be 100 kHz for operating frequencies below 1 GHz, and 1 MHz for operating frequencies above 1 GHz. The resolution bandwidth for frequencies removed from the center frequency by less than 250 percent of the authorized bandwidth shall be the reference bandwidth (B_{REF}) specified in the individual emission limitations, but may be reduced to not less than one percent of the authorized bandwidth (B), adjusted upward to the nearest greater resolution bandwidth available on the measuring equipment. In all cases, if B_{RES} and B_{REF} are not equal, then the attenuation requirement must be increased (or decreased) as determined by a factor of $10 \log_{10} [(B_{REF} \text{ in megahertz}) / (B_{RES} \text{ in megahertz})]$ decibels, where a positive factor indicates an increase in the attenuation requirement and a negative factor indicates a decrease in the attenuation requirement.

(4) Stations licensed pursuant to an application filed before (insert date two years after publication in the Federal Register), using equipment not conforming with the emission limitations specified above, may continue to operate indefinitely in accordance with the terms of their current authorizations, subject to periodic renewal. Existing equipment and equipment of product lines in production before (insert date 30 days after publication in the Federal Register), authorized via certification or verification before (insert date two years after publication in the Federal Register), for equipment not conforming to the emission limitations requirements specified above, may continue to be manufactured and/or marketed, but may not be authorized for use under a station license except at stations licensed pursuant to an application filed before (insert date two years after publication in the Federal Register). Any non-conforming equipment authorized under a station license, and replaced on or after (insert date two years after publication in the Federal Register), must be replaced by conforming equipment.

* * * * *

33. Section 74.536 is amended by removing the line for 31.0 to 31.3 and footnotes 2 and 3 from the table in paragraph (c).

34. Section 74.537 is amended by revising paragraphs (b) and (c) to read as follows:

§ 74.537 Temporary authorizations.

* * * * *

(b) A request for special temporary authority for the operation of an aural broadcast STL or an intercity relay station must be made in accordance with the procedures of § 1.931(b) of this chapter.

(c) All requests for special temporary authority of an aural broadcast auxiliary stations must include full particulars including: licensee's name and address, facility identification number of the associated broadcast station(s), call letters of the aural broadcast STL or intercity relay station, if assigned, type and manufacturer of equipment, effective isotropic radiated power, emission, frequency or frequencies proposed for use, commencement and termination date and location of the proposed operation, and purpose for which request is made including any particular justification.

* * * * *

35. Section 74.551 is amended by revising paragraph (a), removing paragraphs (b) and (c), and redesignating paragraph (d) as new paragraph (b) to read as follows:

§ 74.551 Equipment changes.

(a) Modifications may be made to an existing authorization in accordance with §§ 1.929 and 1.947 of this chapter.

* * * * *

36. Section 74.561 is amended by removing the line for 31,000 to 31,300 from the table

37. Section 74.602 is amended by removing the third sentence and revising the second to last sentence of the introductory text of paragraph (a); revising the channel boundaries for channel designation B03 to show 12.7625-12.7875 in the table of paragraph (a); revising footnote 2 to the table of paragraph (a); revising paragraph (d), the first sentence of paragraph (f), paragraph (h), and the second to last sentence of the introductory text of paragraph (i); and removing and reserving paragraph (a)(2), to read as follows:

§ 74.602 Frequency assignment.

(a) * * * The band segment 6425-6525 MHz is available for broadcast auxiliary stations as described in paragraph (i) of this section. * * *

Band A MHz	Band B MHz				
		Group A channels		Group B channels	
		Designation	Channel boundaries	Designation	Channel boundaries
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* * * * *	* * * * *	* * * * *	* * * * *	B03	12.7625- 12.7875
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *

¹ For fixed stations using Group A and D Channels, applicants are encouraged to use alternate A and B channels such that adjacent R.F. carriers are spaced 12.5 MHz. As an example, a fixed station, relaying several channels, would use A01, B01, A02, B02, A03, etc.

² The band 13.15 - 13.20 GHz is reserved for the assignment of **CARS** Pickup and Television Pickup stations on a primary co-equal basis within 50 kilometers of the television markets defined in § 76.53 of this chapter. The band 13.20 - 13.2125 GHz is reserved exclusively for the assignment of Television Pickup stations on a primary basis. Fixed stations licensed prior to **(insert date 30 days after date of publication in the Federal Register)** may continue operation under their current status on channels in the 13.15 - 13.2125 GHz band, subject to periodic license renewals.

(1) * * *

(2) [Reserved]

* * * * *

(d) Cable Television Relay Service stations may be assigned channels in Band D between 12,700 and 13,200 MHz subject to the condition that no harmful interference is caused to TV STL and TV relay stations authorized at the time ~~of~~ such grants. Similarly, new TV STL and TV relay stations must not cause harmful interference to cable television relay stations authorized at the time ~~of~~ such grants. The use of channels between 12,700 and 13,200 MHz by TV pickup stations is subject to the condition that no harmful interference is caused to Cable Television Relay Service stations, TV STL and TV relay stations, except as provided for in § 74.602(a) Note 2. Band D channels are also shared with certain Private Operational Fixed Stations. see § 74.638.

* * * * *

(9) TV auxiliary stations licensed to low power TV stations and translator relay stations will be assigned on a secondary basis, i.e., subject to the condition that no harmful interference is caused to other TV auxiliary stations assigned to TV broadcast stations. or to cable television relay service stations (CARS) operating between 12,700 and 13,200 MHz. * * *

(g) * * * * *

(h) TV STL, TV relay stations, and TV translator relay stations may be authorized to operate fixed point-to-point service on the UHF TV channels 14-69 on a secondary basis and subject to the provisions of subpart G of this part and those specified below:

(1) Applications for authorization in accordance with this paragraph must comply with the following technical limits or be accompanied by an engineering analysis demonstrating why these limits must be exceeded:

(i) Maximum EIRP is limited to 35 dBW;

(ii) Transmitting antenna beamwidth is limited to 25 degrees (measured at the 3 dB points); and

(iii) Vertical polarization is used

(2) Thcsc stations must not interfere with and must accept interference from current and future full-power UHF-TV stations. LPTV stations, and translator stations. They will also be secondary to land mobile stations in areas where land mobile sharing is currently permitted.

(3) TV STL and TV relay stations licensed for operation on UHF TV channels 52-69 based on applications tiled before **(insert date 30 days after publication in the Federal Register)** may continue to operate under the terms of their current authorizations until the end of transition to digital television in their market (DTV Transition), as set forth in §§ 73.622-73.625. Applications for TV STL and TV relay stations operating on UHF TV channels 52-69 will not be accepted for filing on or after **(insert date 30 days after publication in the Federal Register)**.

(4) TV translator relay stations licensed for operation on UHF TV channels 52-59 based on applications filed before the end of DTV transition may continue to operate under the terms of their current authorizations indefinitely. TV translator relay stations licensed for operation on UHF TV channels 60-69 based on applications ~~filed~~ before the end ~~of~~ DTV transition may continue to operate under the terms of their current authorizations until the end of DTV Transition. Applications for TV

translator relay stations operating on UHF '1V' channels 52-69 will not be accepted for tiling on or after the end of DTV Transition.

(i) * * * This band is co-equally shared with mobile stations licensed pursuant to Parts 78 and 101 of the Commission's Rules. * * *

* * * * *

38. Section 74.603 is revised by removing and reserving paragraph (b).

§ 74.603 Sound channels.

* * * * *

(b) [Reserved]

* * * * *

39. Section 74.604 is amended by removing and reserving paragraph (a)

§ 74.604 Interference avoidance.

(a) [Reserved]

* * * * *

40. Section 74.631 is amended by revising the first sentence of paragraph (a) to read as follows:

§ 74.631 Permissible service.

(a) The licensee of a television pickup station authorizes the transmission of program material, orders concerning such program material, and related communications necessary to the accomplishment of such transmissions, from the scenes of events occurring in places other than a television studio, to its associated television broadcast station, to an associated television relay station, to such other stations as are broadcasting the same program material, or to the network or networks with which the television broadcast station is affiliated.

* * * * *

41. Section 74.632 is amended by removing the last two sentences of paragraph (a) and the Note following paragraph (f), and revising the first sentence of paragraph (c), and paragraphs (e) and (g).

§ 74.632 Licensing requirements.

* * * * *

(c) An application for a new TV pickup station shall designate the TV broadcast station with which it is to be operated and specify the area in which the proposed operation is intended. * * *

* * * * *

(e) A license for a TV translator relay station will be issued only to licensees of low power TV and TV translator stations. **However**, a television translator relay station license may be issued to a cooperative enterprise wholly owned by licensees of television broadcast translators or licensees of television broadcast translators and cable television owners or operators upon a showing that the applicant is qualified under the Communication Act of 1934, as amended.

* * * * *

(g) In case of permanent discontinuance of operations of a station licensed under this subpart, the licensee shall cancel the station license using FCC Form 601. For purposes of this section, a station which is not operated for a period of one year is considered to have been permanently discontinued.

42. Section 74.633 is amended by revising paragraphs (b) and (c) to read as follows:

§ 74.633 Temporary authorizations.

* * * * *

(b) A request for special temporary authority for the operation of a television broadcast auxiliary station must be made in accordance with the procedures of § 1.931(b) of this chapter.

(c) All requests for special temporary authority of a television broadcast auxiliary station must include full particulars including: licensee's name and address, facility identification number of the associated broadcast station(s) (if any), call letters of the television broadcast **STL** or intercity relay station (if assigned), type and manufacturer of equipment, effective isotropic radiated power, emission, frequency or frequencies proposed for use, commencement and termination date and location of the proposed operation, and purpose for which request is made including any particular justification.

* * * * *

43. Section 74.636 is revised as follows:

§ 74.636 Power limitations.

(a) On any authorized frequency, transmitter peak output power and the average power delivered to an antenna in this service must be the minimum amount of power necessary to carry out the communications desired and shall not exceed the values listed in the table below. Application of this principle includes, but is not to be limited to, requiring a licensee who replaces one or more of its antennas with larger antennas to reduce its antenna input power by an amount appropriate to compensate for the increased primary lobe gain of the replacement antenna(s). In no event shall the average equivalent isotropically radiated power (EIRP), as referenced to an isotropic radiator, exceed the values specified below. In cases of harmful interference, the Commission may, after notice and opportunity for hearing, order a change in the effective radiated power of this station. The table follows:

Frequency Band (MHz)	Maximum Allowable Transmitter Power	Maximum Allowable EIRP ²	
	Mobile (W)	Fixed (dBW)	Mobile (dBW)
2.025 to 2.110	12.0	+45	+35
2.450 to 2.483.5	12.0	+45	+35
6.425 to 6.525	12.0	.....	+35
6.875 to 7.125	12.0	+55	+35
12.700 to 13.250	1.5	+55	+45
17.700 to 18.600 .....	.....	+55	.....
18.600 to 18.800 ¹ .....	.....	+35	.....
18.800 to 19.700 .....	.....	+55	.....

where:

A = Attenuation (in decibels) below the mean output power level.

G = Percent removed from the carrier frequency.

B = Authorized bandwidth in megahertz.

(ii) For operating frequencies above 15 GHz, in any 1 MHz reference bandwidth (B_{REF}), the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 250 percent of the authorized bandwidth: As specified by the following equation but in no event less than 11 decibels:

$$A = 11 + 0.4(G - 50) + 10 \log_{10} B.$$

(Attenuation greater than 56 decibels is not required.)

(iii) In any 4 kHz reference bandwidth (B_{REF}), the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log_{10}(P_{MEAN})$ in watts) decibels, or 50 decibels, whichever is the lesser attenuation.

(3) Amplitude Modulation. For vestigial sideband **AM** video: On any frequency removed from the center frequency of the authorized band by more than 50%: at least 50 dB below peak power of the emission.

(b) For all emissions not covered in paragraph (a) of this section, the peak power of emissions shall be attenuated below the peak envelope transmitter power (P_{PEAK}) in accordance with the following schedule:

(1) On any frequency 500 Hz inside the channel edge up to and including 2500 Hz outside the same edge, the following formula will apply:

$$A = 29 \log_{10} [(25111)(D + 2.5 - (W/2))^2] \text{ dB}$$

(Attenuation greater than 50 decibels is not required.)

Where:

A = Attenuation (in dB) below the peak envelope transmitter power.

D = the displacement frequency (kHz) from the center of the authorized bandwidth.

W = the channel bandwidth (kHz).

(2) On any frequency removed from the channel edge by more than 2500 Hz: At least $43 + 10 \log_{10}(P_{PEAK})$ in watts) dB.

(c) For purposes of compliance with the emission limitation requirements of this section:

(1) If the transmitter modulates a single carrier, digital modulation techniques are considered as being employed when digital modulation occupies 50 percent or more of the total peak frequency deviation of a transmitted radio frequency carrier. The total peak frequency deviation will be determined by adding the deviation produced by the digital modulation signal and the deviation produced by any frequency division multiplex (FDM) modulation used. The deviation (**D**) produced by the FDM signal must be determined in accordance with § 2.202(f) of this chapter.

(2) If the transmitter modulates two or more carriers, with at least one using digital modulation and one using frequency or other analog modulation, digital modulation techniques are considered as being employed when the necessary bandwidth of the digital signal(s) is 50 percent or more of the aggregate bandwidth of the system, comprising the digital necessary bandwidth(s), the analog necessary bandwidth(s), and any bandwidth(s) between the digital and analog necessary bandwidths. In this case, the aggregate bandwidth shall be used for the authorized bandwidth (B) in paragraph (a) of this section; and for purposes of compliance with the bandwidth limitations in paragraph (g) of this section and in § 74.602 of this subpart; and the sum of the powers of the analog and digital signals shall be used for mean transmitter power (P_{MEAN}) in paragraph (a) or the peak envelope transmitter power (P_{PEAK}) in paragraph (b) of this section, and for purposes of compliance with the power limitations in § 74.636 of this subpart.

(3) For demonstrating compliance with the attenuation requirements for frequency modulation and digital modulation in paragraph (a) of this section, the resolution bandwidth (B_{RES}) of the measuring equipment used for measurements removed from the center frequency by more than 250 percent of the authorized bandwidth shall be 100 kHz for operating frequencies below 1 GHz, and 1 MHz for operating frequencies above 1 GHz. The resolution bandwidth for frequencies removed from the center frequency by less than 250 percent of the authorized bandwidth shall be the reference bandwidth (B_{REF}) specified in the individual emission limitations, but may be reduced to not less than one percent of the authorized bandwidth (E), adjusted upward to the nearest greater resolution bandwidth available on the measuring equipment. In all cases, if B_{RES} and B_{REF} are not equal, then the attenuation requirement must be increased (or decreased) as determined by a factor of $10 \log_{10} [(B_{\text{REF}} \text{ in megahertz}) / (B_{\text{RES}} \text{ in megahertz})]$ decibels, where a positive factor indicates an increase in the attenuation requirement and a negative factor indicates a decrease in the attenuation requirement.

(4) Stations licensed pursuant to an application filed before (insert date **two** years after publication in the Federal Register), using equipment not conforming with the emission limitations specified above, may continue to operate indefinitely in accordance with the terms of their current authorizations, subject to periodic renewal. Existing equipment and equipment of product lines in production before (insert date **30** days after publication in the Federal Register), authorized via certification or verification before (insert date **two** years after publication in the Federal Register), for equipment not conforming to the emission limitations requirements specified above, may continue to be manufactured and/or marketed, but may not be authorized for use under a station license except at stations licensed pursuant to an application filed before (insert date **two** years after publication in the Federal Register). Any non-conforming equipment authorized under a station license, and replaced on or after (insert date **two** years after publication in the Federal Register), must be replaced by conforming equipment.

* * * * *

45. Section 74.638 is revised to read as follows:

§ 74.638 Frequency coordination.

(a) Coordination of all frequency assignments for **fixed** stations in all bands above 2110 MHz, and for mobile (temporary fixed) stations in the bands 6425-6525 MHz and 17.7-19.7 GHz, will be in accordance with the procedure established in paragraph (b) of this section, except that the prior coordination process for mobile (temporary fixed) assignments may be completed orally and the period allowed for response to a coordination notification may be less than 30 days if the parties agree. Coordination of all frequency assignments for all mobile (temporary fixed) stations in all bands above 2110 MHz, except the bands 6425-6525 MHz and 17.7-19.7 GHz, will be conducted in accordance with

the procedure established in paragraph (b) of this section or with the procedure in paragraph (d) of this section. Coordination of all frequency assignments for all fixed stations in the band 1990-2110 MHz will be in accordance with the procedure established in paragraph (c) of this section. Coordination of all frequency assignments for all mobile (temporary fixed) stations in the band 1990-2110 MHz will be conducted in accordance with the procedure in paragraph (d) of this section.

(b) Frequency coordination for all fixed stations in all bands above 2110 MHz, and for all mobile (temporary fixed) stations in the bands 6425-6525 MHz and 17.7-19.7 GHz. For each frequency authorized under this part, the interference protection criteria in § 101.105(a), (b), and (c) of this chapter and the frequency usage coordination procedures in § 101.103(d) of this chapter will apply, except that only stations in the bands 6425-6525 MHz and 17.7-19.7 GHz are subject to the provision in § 101.103(d) requiring compliance with § 101.21(f) of this chapter in coordinating frequency usage with stations in the fixed satellite service.

(c) Frequency coordination for all fixed stations in the band 1990-2110 MHz. For each frequency authorized under this part, the following frequency usage coordination procedures will apply:

(1) General requirements. Applicants are responsible for selecting the frequency assignments that are least likely to result in mutual interference with other licensees in the same area. Applicants may consult local frequency coordination committees, where they exist, for information on frequencies available in the area. Proposed frequency usage must be coordinated with existing licensees and applicants in the area whose facilities could affect or be affected by the new proposal in terms of frequency interference on active channels, applied-for channels, or channels coordinated for future growth. Coordination must be completed prior to filing an application for regular authorization, for major amendment to a pending application, or for major modification to a license.

(2) To be acceptable for filing, all applications for regular authorization, or major amendment to a pending application, or major modification to a license, must include a certification attesting that all co-channel and adjacent-channel licensees and applicants potentially affected by the proposed fixed use of the frequency(ies) have been notified and are in agreement that the proposed facilities can be installed without causing harmful interference to those other licensees and applicants.

(d) Frequency coordination for all mobile (temporary fixed) stations in all bands above 1990 MHz, except the bands 6425-6525 MHz and 17.7-19.7 GHz. For each frequency authorized under this part, applicants are responsible for selecting the frequency assignments that are least likely to result in mutual interference with other licensees in the same area. Applicants may consult local frequency coordination committees, where they exist, for information on frequencies available in the area. In selecting frequencies, consideration should be given to the relative location of receive points, normal transmission paths, and the nature of the contemplated operation.

46. Section 74.64 I is amended by revising the introductory text of paragraph (a), removing the line for 31.0 to 31.3 and footnotes 2 and 3 from the table in paragraph (a)(1), removing the second sentence of paragraph (a)(5), and revising the introductory text of paragraph (b) to read as follows:

§ 74.641 Antenna systems.

(a) For fixed stations operating above 2025 MHz, the following standards apply:

* * * * *

(b) All fixed stations are to use antenna systems in conformance with the standards of this section. TV auxiliary broadcast stations are considered to be located in an area subject to frequency congestion and must employ a Category A antenna when:

* * * * *

47. Section 74.643 is revised to read as follows:

§ 74.643 Interference to geostationary-satellites.

Applicants and licensees must comply with § 101.145 of this chapter to minimize the potential of interference to geostatiary-satellites.

48. Section 74.644 is amended by revising the table in paragraph (a) and paragraph (b) to read as follows:

§ 74.644 Minimum path lengths for fixed links.

(a) * * *

Frequency band (MHz)	Minimum path length (km)
Below 1,990	n/a
1,990–7,125	17
12,200– 13,250	5
Above 17,700	n/a

(b) For paths shorter than those specified in the Table, the EIRP shall not exceed the value derived from the following equation.

$$\text{EIRP} = \text{MAXEIRP} - 40 \log(A/B) \text{ dBW}$$

Where:

EIRP = The new maximum EIRP (equivalent isotropically radiated power) in dBW.

MAXEIRP = Maximum EIRP as set forth in the Table in § 74.636 of this part.

A = Minimum path length from the Table above for the frequency band in kilometers.

B = The actual path length in kilometers.

NOTES TO PARAGRAPH (b):

(1) For transmitters using Automatic Transmitter Power Control, EIRP corresponds to the maximum transmitter power available, not the coordinated transmit power or the nominal transmit power.

(2) Stations licensed based on an application filed **before (insert date 30 days after publication in the Federal Register)**, in the 2450-2483.5 MHz band, for EIRP values exceeding those specified above, may continue to operate indefinitely in accordance with the terms of their current authorizations, subject to periodic renewal.

* * * * *

49. Section 74.651 is amended by revising paragraphs (a) and (b), removing paragraphs (c) and (d), and redesignating paragraph (e) as new paragraph (c) to read as follows:

§ 74.651 Equipment changes.

(a) Modifications may be made to an existing authorization in accordance with §§ 1.929 and 1.947 of this chapter.

(b) Multiplexing equipment may be installed on any licensed TV broadcast STL, TV relay or translator relay station without authority from the Commission.

* * * * *

50. Section 74.655 is amended by removing the last sentence of paragraph (a).

51. Section 74.661 is amended by revising the table to read as follows:

§ 74.661 Frequency tolerance.

* * * * *

Frequency band (MHz)	Frequency tolerance (%)
2,025 to 2,110	0.005 ¹
2,450 to 2,483.5	0.001 ²
6,425 to 6,525	0.005
6,875 to 7,125	0.005 ¹
12,700 to 13,250	0.005 ¹
17,700 to 18,820	0.003
18,920 to 19,700	0.003

tolerance of 0.002%.

- 2 Stations licensed pursuant to an application filed before (insert date **two** years after publication **in** the Federal Register), for tolerance values exceeding those specified above, may continue to operate indefinitely in accordance with the terms of their current authorizations, subject to periodic renewal. Existing equipment and equipment of product lines in production before (insert date **30** days after publication in the Federal Register), authorized via certification or verification before (insert date **two** years after publication in the Federal Register), for tolerance values exceeding those specified above, may continue to be manufactured and/or marketed, but may not be authorized for use under station license except at stations licensed pursuant to an application **filed** before (insert date **two** years after publication in the Federal Register). Any non-conforming equipment authorized under a station license, and replaced on or after (insert date **two** years after publication in the Federal Register), must be replaced by conforming equipment.

52. Section 74.801 is amended **by** adding a definition for Wireless Assist Video Device in alphabetical order to read as follows:

§ 74.801 Definitions.

* * * * *

Wireless Assist Video Device. An auxiliary station authorized and operated by motion picture and television program producers pursuant to the provisions of this subpart. These stations are intended to transmit over distances of approximately 300 meters for use as an aid in composing camera shots on motion picture and television sets.

53. Section 74.802 is amended by revising paragraph (b)(3) to read as follows:

§ 74.802 Frequency assignment.

* * * * *

(b) * * *

(3) 470.000-608.000 MHz and 614.000-806.000 MHz

All zones 113 km (70 miles)

* * * * *

54. Section 74.832 is amended by revising paragraphs (e), (g), and (i) to read as follows:

§ 74.832 Licensing requirements and procedures.

* * * * *

(e) An application for low power auxiliary stations or for a change in an existing authorization shall specify the broadcast station, or the network with which the low power broadcast auxiliary facilities are to be principally used as given in paragraph (h) of this section; or it shall specify the motion picture or television production company or the cable television operator with which the low power broadcast auxiliary facilities are to be solely used. A single application, filed on FCC Form 601 may be used in applying for the authority to operate one or more low power auxiliary units. The application must specify the frequency bands which will be used. Motion picture producers, television program producers, and cable television operators are required to attach a single sheet to their application form explaining in detail the manner in which the eligibility requirements given in paragraph (a) of this section are met.

* * * * *

(g) Low power auxiliary licensees shall specify the maximum number of units that will be operated

* * * * *

(i) In case of permanent discontinuance of operations of a station licensed under this subpart, the licensee shall cancel the station license using FCC Form 601. For purposes of this section, a station which is not operated for a period of one year is considered to have been permanently discontinued.

* * * * *

55. Section 74.833 is amended by revising paragraphs (b) and (c) to read as follows:

§ 74.833 Temporary authorizations.

* * * * *

(b) **A** request for special temporary authority for the operation of a remote pickup broadcast station must be made in accordance with the procedures of § **1.931**(b) of this chapter.

(c) **All** requests for special temporary authority of a low power auxiliary station must include full particulars including: licensee's name and address, statement of eligibility, facility identification number ~~of~~ the associated broadcast station (if any), type and manufacturer of equipment, power output, emission; frequency or frequencies proposed to be used, commencement and termination date, location of proposed operation, and purpose for which request is made including any particular justification.

* * * * *

56. **A** new Section 74.870 is added to read as follows:

§ 74.870 Wireless video assist devices.

Television Broadcast Auxiliary licensees and motion picture and television producers, as defined in § 74.801 of this part, may operate wireless video assist devices on a non-interference basis on VHF and UHF television channels to assist with production activities.

(a) The use of wireless video assist devices must comply with all provisions of this subpart, except as indicated in paragraphs (b) through (i) of this section.

(b) Wireless video assist devices may only be used for scheduled productions. They may not be used to produce live events and may not be used for electronic news gathering purposes.

(c) Wireless video assist devices may operate with a bandwidth not to exceed 6 MHz on frequencies in the bands 180-210 MHz (TV channels 8-12) and 470-698 MHz (TV channels 14-51) subject to the following restrictions:

(1) The bandwidth may only occupy a single TV channel

(2) Operation is prohibited within the 608-614 MHz (TV channel 37) band.

(3) Operation is prohibited within **129 km** of a television broadcasting station, including Class **A** television stations, low power television stations and translator stations,

(4) For the area and frequency combinations listed in the table below, operation is prohibited within the distances indicated from the listed geographic coordinates.

Note: All coordinates are referenced to the North American Datum of 1983